

*Floods in small streams.*—No specific mention has been made of the many floods that occurred in very small streams. These were usually due to torrential rains within short periods of time, frequently at night, and beyond possibility of effective warnings. The losses caused by these floods probably amounted to an additional \$1,000,000 or more, and in many instances they were proportionately greater than those caused by the larger streams.

### MEAN LAKE LEVELS DURING OCTOBER, 1926

By UNITED STATES LAKE SURVEY

[Detroit, Mich., November 4, 1926]

The following data are reported in the "Notice to Mariners" of the above date:

Data	Lakes <sup>1</sup>			
	Superior	Michigan and Huron	Erie	Ontario
Mean level during October, 1926: Above mean sea level at New York.....	Feet 601.68	Feet 578.32	Feet 574.10	Feet 244.93
Above or below—				
Mean stage of September, 1926.....	+0.38	—0.19	+0.26	+0.07
Mean stage of October, 1925.....	+0.29	+0.41	+1.09	+0.61
Average stage for October, last 10 years.....	—0.70	—1.47	—0.18	—0.62
Highest recorded October stage.....	—2.96	—4.72	—2.01	—2.88
Lowest recorded October stage.....	+0.29	+0.41	+1.09	+1.26
Average departure (since 1860) of the October level from the September level.....	—0.05	—0.23	—0.32	—0.35

<sup>1</sup> Lake St. Clair's level: In October, 1926, 574.10 feet.

### EFFECT OF WEATHER ON CROPS AND FARMING OPERATIONS, OCTOBER, 1926

By J. B. KINCER

*General summary.*—Rains in September were persistent in most of the interior valley States, and they continued during the first week in October, with resulting weather conditions decidedly unfavorable for maturing crops and for fall operations. Very little field work was possible in the Central and Northern States from the Mississippi Valley eastward, and the saving of frosted corn in the northwestern portion of the Corn Belt, where the crop was damaged the latter part of September, was retarded.

After the first week of the month, however, the weather in the interior of the country was much more favorable for agricultural interests, as the sunshiny, generally dry, and moderately warm conditions favored both outside operations and the drying out of crops. The dry weather was especially favorable in the central portions of the Corn and Winter Wheat Belts, but at the same time the lack of sufficient sunshine and rather frequent showers delayed the usual fall operations in much of the Northeast.

The first general frost of the season overspread the lower Missouri and Ohio Valley States on the 24–27th, with a light deposit extending as far south as the northern portion of the east Gulf area, but damage was not material, as staple crops had practically all matured. The frost over this large and important agricultural section came later than in an average year, and the southern progress of the first freeze of the season was still somewhat behind an average year in most sections, especially east of the Mississippi River, at the close of the month.

River	Station	Flood stage	Above flood stages—dates		Crest		
			From—	To—	Stage	Date	
MISSISSIPPI DRAINAGE							
		Feet			Feet		
Shenango.....	Sharon, Pa.....	9	25	26	9.7	25	
Tuscarawas.....	Gnadenbutter, Ohio.....	9	26	27	10.6	26	
Walhonding.....	Walhonding, Ohio.....	8	31	31	8.6	31	
Scioto.....	Larue, Ohio.....	11	5	7	12.7	6	
	Prospect, Ohio.....	10	7	8	10.8	7	
	Circleville, Ohio.....	10	7	8	11.4	7	
Wabash.....	Lafayette, Ind.....	11	(1)	8	18.5	5	
	Terre Haute, Ind.....	16	(1)	12	20.7	6-7	
	Vincennes, Ind.....	14	3	15	19.0	11	
	Mt. Carmel, Ill.....	16	4	17	21.1	11	
Tippecanoe.....	Norway, Ind.....	6	(1)	11	6.5	2, 3, 6, 7	
			15	15	6.0	15	
			20	20	6.0	20	
			25	25	6.2	25	
White, West Fork...	Edwardsport, Ind.....	15	1	10	17.85	7	
Mississippi.....	Quincy, Ill.....	14	(1)	9	16.0	3 & 6	
	Hannibal, Mo.....	13	(1)	12	16.7	3, 4, & 6	
	Louisiana, Mo.....	12	(1)	13	16.8	4	
	Grafton, Ill.....	18	(1)	17	23.7	6	
	Alton, Ill.....	21	(1)	17	26.2	8	
	Chester, Ill.....	27	6	15	28.9	9	
	Cape Girardeau, Mo.....	30	5	17	32.9	10	
Illinois.....	Morris, Ill.....	13	(1)	10	16.5	5	
	Peru, Ill.....	14	(1)	(3)	23.4	7	
	Henry, Ill.....	10	(1)	(3)	18.2	8 & 9	
	Peoria, Ill.....	18	(1)	29	25.02	9	
	Havana, Ill.....	14	(1)	(3)	23.47	12	
	Beardstown, Ill.....	14	(1)	(3)	26.25	12	
	Pearl, Ill.....	12	(1)	(3)	22.0	6 & 7	
Missouri.....	St. Charles, Mo.....	25	7	13	26.0	12	
Grand.....	Gallatin, Mo.....	20	2	7	33.5	6	
	Chillicothe, Mo.....	18	10	11	25.7	10	
	Brunswick, Mo.....	12	6	12	13.6	7	
Osage.....	Osceola, Mo.....	20	7	7	20.0	9 & 10	
	Warsaw, Mo.....	22	4	12	22.5	11	
	Tuscumbia, Mo.....	25	6	7	23.8	5	
			10	14	26.2	6 & 7	
Arkansas.....	Arkansas City, Kans.....	19	3	5	21.0	12	
	Fort Smith, Ark.....	22	1	1	22.0	1	
	Dardanelle, Ark.....	20	4	16	29.1	11	
	Pine Bluff, Ark.....	25	12	18	25.8	15	
	Yancopin, Ark.....	29	7	28	35.5	19 & 20	
Little Arkansas.....	Sedgewick, Kans.....	18	3	4	20.4	3	
			13	13	18.0	13	
Neosho.....	Neosho Rapids, Kans.....	22	5	7	23.9	4	
	Le Roy, Kans.....	24	3	8	26.1	4	
	Iola, Kans.....	15	3	8	18.0	5 & 6	
	Oswego, Kans.....	17	3	12	23.3	10	
Cottonwood.....	Elmdale, Kans.....	32	4	4	32.04	5	
	Emporia, Kans.....	20	4	7	24.1	5	
White.....	Calico Rock, Ark.....	18	1	1	18.1	1	
			30	30	19.3	3	
Sulphur.....	Batesville, Ark.....	23	1	2	25.5	1	
	Ringo Crossing, Tex.....	20	11	17	22.8	13	
WEST GULF DRAINAGE							
Trinity.....	Trinidad, Tex.....	28	9	15	29.7	14	
Rio Grande.....	San Benito, Tex.....	21	18	19	21.5	18	

<sup>1</sup> Continued from last month.

<sup>2</sup> Also Sept. 26 and 30.

<sup>3</sup> Continued at end of month.

<sup>4</sup> Estimated.